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PHOTOGRAPHIC INTERPRETATION REPORT

ANTIMISSILE TEST CENTER, SARY-SHAGAN, USSR CHANGES AND ADDITIONS AS OF

25X1D

NPIC/R-162/64 March 1964

Declassification Review by NIMA / DoD

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

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PREFACE

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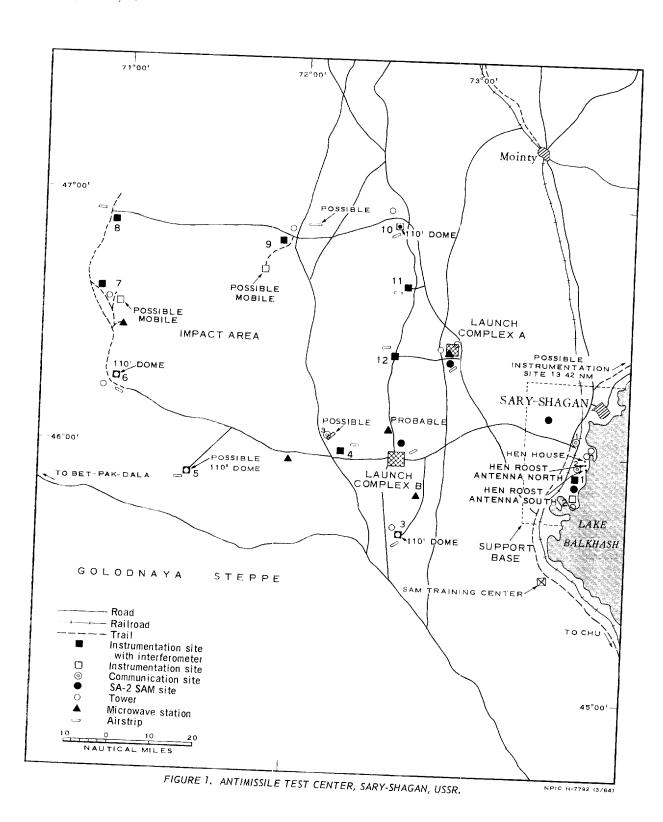
This report is in partial response to requirements AF-4-63 and OSI/R-135/63. It provides information on the majority of facilities at the Antimissile Test Center, (BE No Sary-Shagan, USSR, (Figure 1), supplementing previous reports. 1-6/ It is based on KEYHOLE photography from Included are descriptions of the facilities comprising the Support Base, Launch Complex A, Launch Complex B, those sites containing the recently constructed triad of buildings, and a SAM training center approximately 41 nautical miles (nm) south-southwest of Sary-Shagan.

A detailed report 7/ was published in July 1963 on the HEN ROOST

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SUMMARY

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pared with previous photography in order to update existing reports on the Sary-Shagan Antimissile Test Center (SSATC). This photography covers the entire Center and represents generally the best KEYHOLE coverage received to date. Stereoscopic coverage is provided on almost all of the facilities. No new operational antimissile-missile launch complexes have been identified. Almost all the facilities comprising the Support Base have undergone change or expansion in varying degree from

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At Launch Complex A minor building construction has occurred in the headquarters and administration area from

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Activity and movement of equipment were noted in the six launch sites and associated electronic facilities. The only significant expansion of facilities at these sites during this period occurred at Electronic Site C, associated with Launch Sites 5 and 6. An approximately 300-foot-long extension to the modified L-shaped

building was completed in the large central facility at this site.

At Launch Complex B little or no change was discernible in the support and launch areas during this period. Construction continued, however, in the triad of buildings just southwest of Facility B. Current emphasis has been primarily on the site exterior and on the roof of the large rectangular building, where a circular dish-like or disc-like object was ob-Triad activity has served in progressed concurrently at Instrumentation Sites 2 and 10 and Possible Instrumentation Site The facilities at the four sites are considered to have possible antimissile-missile association and closely resemble facilities being developed at four SA-1 SAM sites near Another area of interest has been Moscow. under development at Possible Instrumentation close to the building Site 13 since triad and consisting to date of a linear excavation (approximately 2,200 feet long) with a large unidentified possible structure in the center.

SUPPORT BASE

The Support Base (Figure 2) has been covered by generally very good KEYHOLE photography. Relatively significant development has taken place in the following areas: Main Housing Complex, Dirt Strip, Instrumentation Site 1, Instrumentation Site 2, and Communications Site 1. Minor changes have been noted in the majority of the other facilities. Almost continuous development has been observed in the warehouse and housing areas and at the Probable Range Headquarters/Complex Control Area situated in the Main Housing Complex. A tower approximately 700 feet high was erected

in the Main Housing Complex close to Lake Balkhash. From the 16,500-foot-long dirt strip was widened from 270 feet to 1,500 feet. The SAM Training Center, which is described under the Support Base, was identified on photography of and has been active since that time when photographed. One additional SAM launch site and one probable SAM launch site have been added to the original three sites since as well as a small number of buildings. Construction continues at Instrumentation Site 1,

where a tracking station now has been identified.

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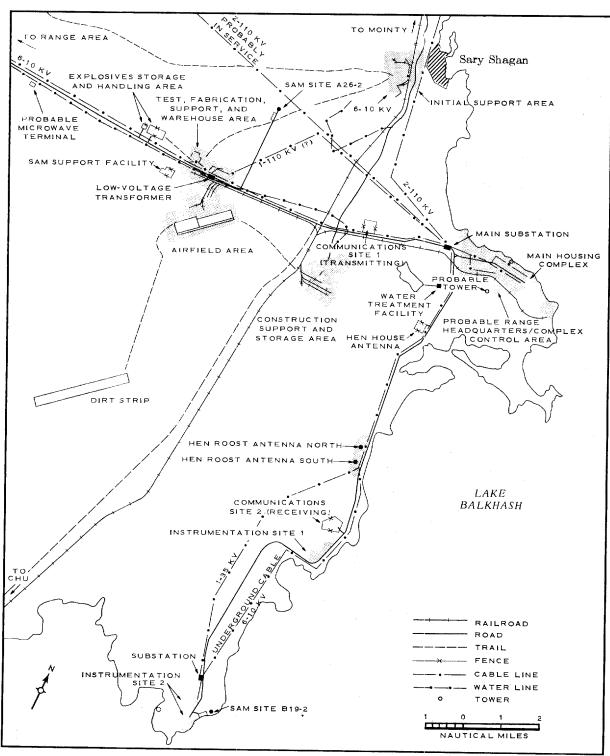


FIGURE 2. SUPPORT BASE.

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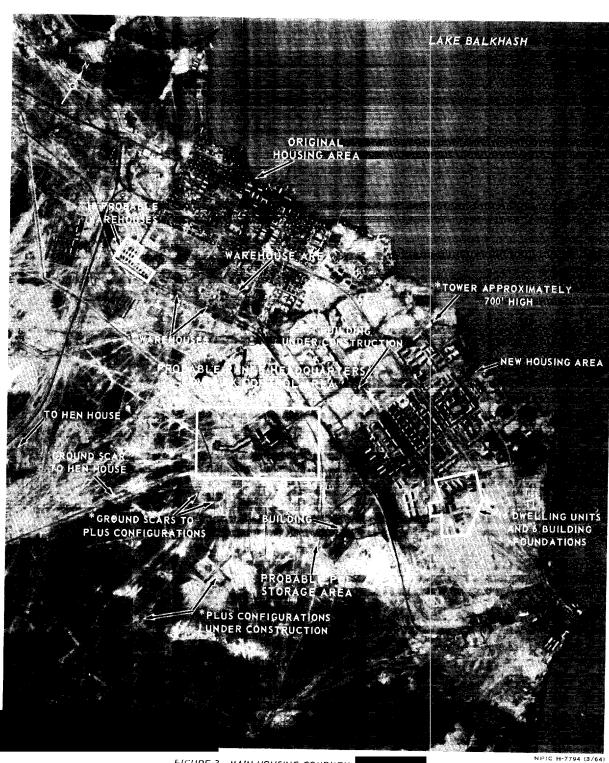
MAIN HOUSING COMPLEX

	Housing and Storage Facilities (Figure 3).
05V4D	The Original Housing Area underwent no
25X1D	significant change from
	Along the eastern boundary of the New
	Housing Area 16 new dwellings units (the 5
	largest approximately 210 by 60 feet) have been added, some of which were under con-
05V4D	struction in Continuing construction
25X1D	at this area has been observed from that time
25X1D	until Foundations for 6 additional
	buildings (5 large and one small) were noted
25X1D	on photography of In the area mid-
	way between the Original and New Housing Areas
	one new building was observed under con-
25X1D	struction in
	In the Warehouse Area just south of the
25X1D	Original Housing Area from ten small probable warehouses were con-
_25X1D	structed, two of which were under construction
05745	in a total of 18
25X1D	such buildings (each approximately 80 by 30
	feet) appeared at the site. Two warehouses
	were erected along the rail line in the Ware-
25X1D	house Area from
	Close to the shores of Lake Balkhash and
	just off the northwest corner of the New Housing
	Area a tower (approximately 700 feet high)
25X1D	was observed on photography of It is situated in an enclosed area (approximately
	480 by 430 feet) which also contains a build-
	ing 135 by 90 feet, five very small structures,
	and a probable gatehouse.
اسم	The rail-served storage area just south-
—	east of the New Housing Area can now be
	identified as a Probable POL Storage Area.
	One new support building (95 by 55 feet) appeared
25X1D	along the rail spur between Two groups of six tanks each are
25X1D	Two groups of six tanks each are observed in the area east of the rail line.
	Probable Range Headquarters/Complex
	Control Area (Figures 3 and 4). This area,

southwest of the New Housing Area, has under-	
gone expansion since and changes	25X1D
continue on the latest coverage of	25X1D
Foundation for a new building (390	25X1D
by 65 feet) was observed in in the	25X1D
northeast corner of the site. The exterior	25V1D
appeared complete or nearly complete by	25X1D 25X1D
Additional work has been accomplished	23/10
on a recently constructed building in the north- west corner so that it now appears to be	
west corner so that it now appears to be composed externally of a single unit rather than	
the two units apparent in Construction	25X1D
activity was visible on the roofs of both build-	25X1D
ings from Good-quality	
photography of reveals a probable	25X1D
tower adjacent to the base of the administration	
building and a second smaller storage tank,	
approximately 25 feet in diameter, adjacent to	
the 35-foot tank.	051/45
By a building 180 by 55 feet	25X1D
was observed under construction in the south-	
west corner of the site, and at the same time	
an unidentified structure (255 by 110 feet)	
was being erected outside the fenced site	
and just southwest of this new building. A roughly parallel system of ground conduits,	
which appeared between	25X1D
extends from the building to the Probable	
Range Headquarters/Complex Control Area.	
Plus Configurations (Figure 3). In	25X1D
two plus configurations were observed	25X1D
under construction midway between the Probable	
Range Headquarters/Complex Control Area and	
the HEN HOUSE antenna. The one closer to	
the HEN HOUSE antenna was in an initial	
construction stage; the other, in a more advanced	
stage, has crossarms approximately 1,000 and	
900 feet long, respectively. No evidence of	
this activity could be found on photography of Earth for constructing	25X1D
the plus configurations apparently was obtained	
from adjacent borrow pits. From	25X1D
work of a minor nature continued on the	25X1D
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FIGURE 3. MAIN HOUSING COMPLEX,

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northern plus configuration; the southern one remained unchanged. From the point where a ground scar extends from the Probable Range Headquarters/Complex Control Area to the HEN HOUSE antenna, two additional scars were noted on photography of one extending to the bisection point of the crossarms of the northern plus configuration, the other extending to the southern plus configuration.

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FIGURE 4. PROBABLE RANGE HEADQUARTERS/COMPLEX CONTROL AREA,

TEST, FABRICATION, SUPPORT, AND WAREHOUSE AREA

No change was noted between in the Test, Fabrication, and Support Facilities comprising this area (Figure 5). In the Warehouse Facility during this period seven warehouses of various sizes and positioned in two rows were completed close to the east side of a new rail siding. Most of these warehouses were under construction in A fence existing at the site of the new warehouses has been dismantled. No new buildings were erected along the west side of the new siding.

MAIN SAM SUPPORT FACILITY

The main SAM support facility for SSATC (Figure 5) is a fence-enclosed road-served

area located 1.6 nm northwest of the center of the primary Sary-Shagan Airfield. It was under construction in and appeared virtually complete by photography shows the components to be similar to those found at conventional SA-2 SAM support facilities elsewhere in the USSR. No significant change was observed in components from Numerous vehicles or pieces of equipment were observed lined up along the northwest and northeast boundaries of the facility A dark ground pattern along the south-central boundary on photography had increased in size by A dark pattern, possibly a ditch, is noted just south of the main assembly/ receiving building.

SA-2 SAM SITES

Four operational SA-2 SAM sites and their associated on-site support facilities have been deployed to date at SSATC -- at Launch Complex A, at Launch Complex B, near Instrumentation Site 2, and near the primary airfield. All sites were constructed or under construction sometime between and are of the hexadic star type. No recent change was observed in facilities at the launch sites except for the addition of an unidentified structure just outside the fenced area at the SA-2 site near the airfield. This structure appeared between

No recent change of significance was observed at associated on-site support facilities except for the addition of one building (approximately 110 by 65 feet) at SAM Site C35-2 near Launch Complex A between

Probable equipment at the four sites has varied from mission to mission. The on-site support facilities are generally similar, consist-

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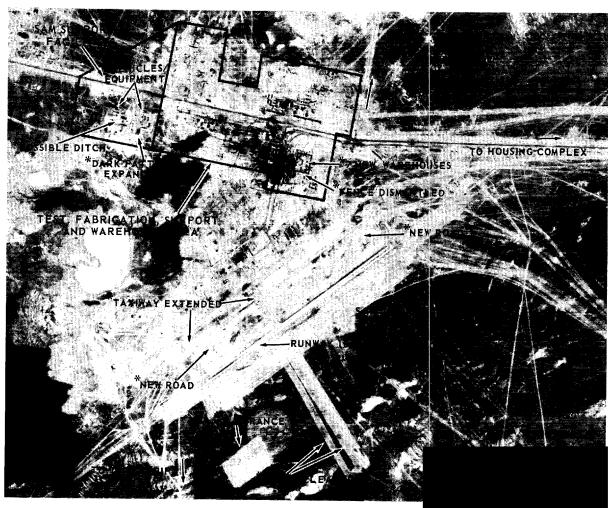


FIGURE 5. SARY-SHAGAN AIRFIELD; TEST, FABRICATION, SUPPORT, AND WAREHOUSE AREA; AND SAM SUPPORT FACILITY,

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ing of one long revetted building (probably for missile ready storage), one building (approximately 110 by 65 feet), and several other smaller support structures. The 110- by 65-foot building, which may provide limited checkout capabilities, is present at SAM Sites A26-2 and C35-2 and possibly at SAM Site B19-2. None can be identified to date at SAM Site B27-2. These on-site support facilities differ in size, layout, and buildings from the conventional on-site support facility.

SAM TRAINING CENTER

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Photography of revealed the existence of a SAM Training Center (Figure 6) approximately 41 nm south-southwest of the village of Sary-Shagan. The Center consisted primarily of a rectangular area, probably secured and measuring 3,170 by 885 feet, with three SAM launch sites positioned inside. The rectangular area is oriented north-south along its major axis. Immediately to the east were one main support area and 4 smaller support areas having a total